PRELIMINARY OWNER/OPERATOR'S SECTION

PAC-LAND U.R.

BALLY Midway MFG. CO

PRELIMINARY INSTRUCTIONS

FOR

PAC - LAND

INSTALLATION

- 1. Unlock and open the coim box door.
- 2. Remove four (4) "CABINET LEVELING LEGS" from Lague the coin box.
- Tip the cabinet to the side and remove the shipping cleats from its bottom.
 - Locate the threaded one in each corner and install the "CABINET LEVELI
 - Level the cabinet
 - When finished the cabinet should be stable in the upright position.
- 4. Plug the game into a standard A wall outlet ONLY.



Game **MUST** be properly grounded.

5. The power ON/OFF switch is located:

UPRIGHT MODEL: On top of the cabinet toward the back.

LINE VOLTAGE SAFETY INTERLOCK SWITCHES

Line voltage SAFETY INTERLOCK SWITCHES have been provided for your protection. The locations of these SAFETY INTERLOCK SWITCHES are:

UPRIGHT MODEL: Inside the rear of the cabinet where the access door, when closed, will be able to depress the switch plunger.

When the cabinet access door(s) are secured in place, the SAFETY INTERLOCK SWITCH plunger(are in a fully depressed condition. The game circuit can function normally.

When any cabinet access door(s) are opened, the SAFETY INTERLOCK SWITCH plunger(s) are in partially extended condition. This isolates the game circuit from the line voltage.

To restore power to the game circuit with the access door(s) open, gently pull the SAFETY INTERLOCK SWITCH plunger(s) out to the fully extended condition. THIS IS TO BE USED FOR SERVICING THE GAME ONLY!

TO SERVICE THE CONTROL PANEL(S)

UPRICET MODEL:

The control meet is held in place by massick clamps.

They are spring loaded to provide constant positive pressure on their latch

They can be reached through the coin door AFTER turning power to the game.

To release the clamps, lift up and toward the center of the control panel.

Once they are released, unhook them from their latch plates.

• To open the control panel for servicing:

Raise it up and tilt it toward you until you can see the Zabling behind it

The control panel is now loose and may be serviced but remains tethered to game by a plastic strap.

To completely remove the control panel, disconnect it from its cabling and miscellaneous hardware, and remove the wing nut securing it to the plastic

The control panel is now free and can be removed.

To reinstall the control panel(s), reverse this procedure.

REMOVAL OF THE MAIN-DISPLAY-GLASS AND/OR THE T.V. BEZEL ASSEMBLY

1. UPRIGHT MODEL:

NOTE: In order to do this, the control panel MUST be removed first. See the "UPRIGHT MODEL" procedure.

- Turn the power to the game off and remove the control panel. This frees to main-display-glass so it can be removed.
- By putting your finger in the hole in the middle of the main-display-glass support, you can lift it up and out.
- Loosen the screws which secure the T.V. bezel-diffuser-clamps in place.

Move the clamps to the side and the bezel diffuser may be removed.

Remove the bezel securing screws and the bezel with it's bezel-difuser-clatheir screws may be removed.

 To reinstall the T.V. bezel assembly and the main-display-glass, reverse procedure.

VOLUME CONTROL POT / OPTION SWITCH LOCATIONS

The volume control pof(s) and option switches are located as shown in the attached board reference drawing. For adjustment, it/they may be reached through the games access door.

To make the sounds louder, turn the volume of clockwise as you face it.

make the sounds less loud, turn the volume pot counterclocks se as you face

RATION GAME

Your new game is a one of a two player model with a color T.V. months. The game has f possible me es of operation: ATTRACT, READY-TO-PLAY, PLAY, HIGH SCORE/IN AL and SELF-TEST.

SELF-TEST MODE

The Self-Test mode is a special mode for checking the game switches and computer functions. It is the easiest and best ay to check or proper operation of the entire game.

Putting the game anto Self-Test will cause it to erase any CREDITS it has on NOTE: it from its memory.

You may begin a Self-Test at any time after the power to the game is on by pushing down on the spring loaded Self-Test switch. The game enters the Self-Test mode immediately. ** It will take about 5 seconds to perform the following 7 checks on itself.

ROM TEST: ROM OK appear

RAM OK appears RAM TEST:

SUB OK appears.

UPRIGHT/TABLE: UPRIGHT appears

1 COIN 1 CREDIT appears. COIN 1:

1 COIN 1 CREDIT appears. 5. COIN 2:

MYPAC: 3 appears.

(players)

RANK: 7. A appears.

Pushing the Left or right direction control buttons should cause 8. SOUND 00 appears. the numbers to change AND a sound to be heard. Pushing the jump buttons, game start buttons, and the coin switches should

cause ONLY a sound to be heard.

EXTEND TYPE: A appears.

ATS: ON appears. 10.

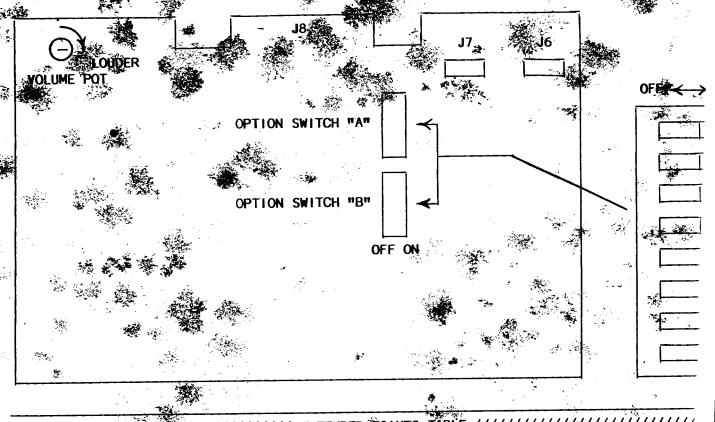
OFF appears. 11. RND:

CROSS HATCH PATTERN

Pressing the service button while in the Self-Test mode causes a cross hatch pattern to appear on the monitor. Pressing it again, causes the cross hatch to disappear.

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OPTION SWITCH SETTING	1ST EXTENSION AT	2ND EXTENSION AT:	3RD EXTENSION AT:	4TH EXTENSION AT:	5THC EXTENSION AT:	6TH EXTENSION AT:
Α	30,000	~80,000	150,000	300,000	500,000	1,000,000
В	30,000	100,000	200,000	400,000	600,000	1,000,000
С	40,000	100,000	180,000	300,000	500,000	1,000,000
D	30,000	80,000	EVERY 100,000			
E	50,000	150,000	EVERY 200,000			
F	30,000	80,000	150,000			3
G	40,000	100,000	200,000			
Н	40,000	<i>5</i> .				4.

Pac Land Logic Board Connections

 $\tt J8.44P$ Edge Connector (The pole key is located between E and F) 225J-22221-488DDK (Pitch 3.96mm)

Α	GND	1	GND
В	Speaker +	2	Speaker -
C	Lockout Solenoid	3	Coin Counter
D	1 P Start Lamp	4	2 P Start Lamp
E	+ 12v	5	+12v
F	+5v	6	+5v
Η	GND	7	GND
J	Service Switch	8	Test Switch
K	Coin 1 Switch	9	Coin 2 Switch
L	1 P Start Switch	10	2 P Start Switch
M	Player 1 Jump Switch	11	Player 2 Jump Switch
N	Player 1 Left	12	Player 2 left
P		13	
R	Player 1 Right	14	Player 2 Right
S		15	
Т		16	
U		17	
V		18	
W		19	
X		20	
Y	Coin Counter 2	21	Table GND
Z	GND	22	GND

Notes:

- 1. The lockout solenoid and the coin counter's power supply is +12v.
- 2. The start lamp's power supply is +5v.
- 3. Each microswitch is connected onto the N.O. terminal. Each GND is connected onto the COM terminal.
- 4. TABLE GND for the table, the GND is connected. Others, the GND is not connected.

J6.6P Plug Housing (Socket Connector)

J7.3P Plug Housing (Socket Connector)

1	+12v 1A	Housing	1-480704-0
2	GND	Contact	350689-1 AMP
3	+5v 4A		

Name Of Game: Pac Land Manuf: Namco _____

Switch "A" Settings									
Option	SW1	SW2	 SW3	 SW4	 SW5	 SW6	 SW7	 SW8	-
Normal Play Mode Test Mode	OFF ON			 	 		 		
3 Pac-Mans Per Game 2 Pac-Mans Per Game 4 Pac-Mans Per Game 5 Pac-Mans Per Game		OFF OFF ON ON	OFF ON ON	 	 		 		
Coin 1: 1 Coin / 1 Credit 1 Coin / 2 Credits 2 Coins/ 1 Credit 3 Coins/ 1 Credit				 OFF OFF ON	 OFF ON OFF		 		
Attract Sound On Attract Sound Off				 		OFF ON			
Coin 2: 1 Coin / 1 Credit 1 Coin / 2 Credits 2 Coins/ 1 Credit 3 Coins/ 1 Credit							 OFF OFF ON ON	OFF ON OFF	

Switch "B" Settings

SW1	SW2	SW3	SW4	SW5	SW6	SW7	SW8
			OFF	OFF			OFF
OFF OFF OFF ON ON ON	OFF OFF ON OFF OFF OFF	OFF ON OFF ON OFF ON OFF					
 	 		 	 	 OFF ON 	OFF	
	 OFF OFF OFF OFF ON ON	OFF		OFF OFF OFF ON OFF OFF ON OFF OFF OFF OF	OFF OFF OFF OFF OFF OFF OFF OFF OFF OFF OFF OFF OFF OFF OFF OFF OFF OFF OFF OFF OFF ON ON	OFF OFF OFF OFF OFF OFF OFF ON OFF OFF ON OFF OFF ON ON OFF ON OFF OFF ON OFF ON OFF ON OFF ON ON OFF ON OFF ON ON OFF ON OFF ON ON OFF ON ON OFF ON ON OFF	OFF OFF OFF OFF OFF OFF OFF ON OFF OFF ON ON ON OFF ON ON OFF ON OFF ON ON OFF ON ON OFF ON ON ON ON OFF ON ON OFF ON ON ON ON ON ON OFF ON ON ON OFF ON ON ON OFF ON ON ON OFF

Free Man Points Table

	1st	2nd	3rd	4th	5th	6th
A	30,000	80,000	130,000	300,000	500,000	1,000,000
В	30,000	100,000	200,000	400,000	600,000	1,000,000
C	40,000	100,000	180,000	300,000	500,000	1,000,000
D	30,000	80,000	Every 100K		İ	į į
E	50,000	150,000	Every 200K		İ	į į
F	30,000	80,000	150,000		İ	į į
G	40,000	100,000	200,000		İ	į į
H	40,000				İ	į į